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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,166	08/20/2003	Fritz Kramer	13949-0018	7618	
31278 7	590 09/09/2004		EXAMINER		
	YOCCO CARLSON	GELLNER, JEFFREY L			
SUITE 1600	T CENTER DRIVE		ART UNIT	PAPER NUMBER	
P.O. BOX 768			3643	· <del></del>	
NEWPORT BI	EACH, CA 92660	DATE MAILED: 09/09/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

				A(1.				
		Applicat		Applicant(s)	•			
Office Action Comments		10/645,1	66	KRAMER ET AL.				
	Office Action Summary	Examine	r	Art Unit				
		Jeffrey L		3643				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed	on 24 August 200	<b>4</b> .					
•=	'his action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) 4 and 14-27 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-3 and 5-13 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are:  Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	a) accepted or to tion to the drawing(s) the correction is requ	be held in abeyance. Se ired if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR				
Priority (	under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Infor	nt(s)  ce of References Cited (PTO-892)  ce of Draftsperson's Patent Drawing Review (PT  mation Disclosure Statement(s) (PTO-1449 or Fer No(s)/Mail Date 7 June 2004.	rO-948)	Paper No(s)/Mail D	y (PTO-413)	152)			

Acknowledgement is made of Applicant's IDS received 7 June 2004.

Election/Restrictions

Applicant's election with traverse of Invention I - Species II, nitrogenous microporous solid, in the reply filed on 24 August 2004 is acknowledged. The traversal is on the ground(s) that the two inventions do not represent a burden to the Examiner because of the invention's relationship of subject matter (Remarks page 5 1<sup>st</sup> para.). This is not found persuasive because the method, per se, would necessitate the searching in classes/subclasses designated as

encompassing agricultural methods.

The requirement is still deemed proper and is therefore made FINAL. Claims 15-27 are withdrawn from examination because they are drawn to Invention II. In addition, claims 4 and 14 are withdrawn because they are drawn to the non-elected species. Examiner acknowledges Applicant's identification of the typographical error in Examiner's first office action in naming Species II as "Species I."

Claim Rejections - 35 USC §103

The following is a quotation of 35 U.S.C. §103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-3, 5-8, are is rejected under 35 U.S.C. §103(a) as being unpatentable over Lee (US 4,729,190) in view of Beaudry (US 5,525,130).

As to claim 1, Lee discloses a composition of matter comprising a microporous solid (col. 2 lines 25-31; col. 8 lines 31-40; col. 10 lines 42-46) having a plurality of cells (inherent in col. 2 lines 25-31; col. 8 lines 31-40; col. 10 lines 42-46) and quantity of gas (col. 8 lines 41-68, in particular, "volatile active agent can be deposited from vapor state) of col. 8 lines 66-67) contained with one or more of the plurality of cells. Not disclosed is the gas being ethylene. Beaudry, however, discloses a composition that has cells with ethylene ("purified gas" of col. 4 lines 38-40). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the composition of Lee by using ethylene gas as disclosed by Beaudry so as to manipulate maturation in plants (see abstract of Beaudry).

As to Claim 2, Lee as modified by Beaudry further disclose an open cell configuration (from "various geometries" of Lee at col. 8 lines 25-31; col. 9 lines 26-28).

As to Claim 3, Lee as modified by Beaudry further disclose a closed cell configuration (from "various geometries" of Lee at col. 8 lines 25-31).

As to Claim 5, the limitations of Claim 1 are disclosed as described above. Not disclosed is the microporous solid having a density of between 0.1 and 10 lb/cubic foot. It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the composition of Lee as modified by Beaudry by making the composition's density from 0.1 to 10 lb/cubic foot so as to meet a particular purpose for the composition.

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As to Claim 6, Lee as modified by Beaudry further disclose a nitrogenous microporous solid (using "acrylamide or acrylonitrile" from col. 4 line 50 of Lee and "granules or the like" of col. 10 line 45 of Lee).

As to Claim 7, Lee as modified by Beaudry further disclose release over time (col. 2 lines 30-31 of Lee).

As to Claim 8, Lee as modified by Beaudry further disclose the gas able to diffuse through the cell wall (from "permeabilities" of col. 2 lines 25-31 of Lee).

As to Claim 11, Lee as modified by Beaudry further disclose a solid with a density that can be changed so as to alter the change in the rate of release of ethylene (inherent in many compositions presented in Lee).

As to Claim 12, Lee as modified by Beaudry further disclose a solid with a shape that can be changed so as to alter the change in the rate of release of ethylene (inherent in many compositions presented in Lee).

As to Claim 13, Lee as modified by Beaudry further disclose a solid with a density and shape that can be changed so as to alter the change in the rate of release of ethylene (inherent in many compositions presented in Lee).

Claims 9 and 10 are is rejected under 35 U.S.C. §103(a) as being unpatentable over Lee (US 4,729,190) in view of Beaudry (US 5,525,130) in further view of Allan (US 5,252,542).

As to Claims 9 and 10, the limitations of Claim 1 are disclosed as described above. Not disclosed is the gas released due to degradation of the cell's walls. Allen, however, discloses a composition where the impregnant is released by the degradation of the cell wall (col. 2 lines 10-

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12). It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the composition of Lee as modified by Beaudry by having the release mechanism degradation of the cell's wall as disclosed by Allen as an alternative means of release.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Daley et al. and Kato disclose in the prior art various compositions concerning ethylene. Kramer et al. discloses the instant application's pre-grant publication.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Jeffrey L. Gellner whose phone number is 703.305.0053. The Examiner can normally be reached Monday through Thursday from 8:30 am to 4:00 pm. The Examiner can also be reached on alternate Fridays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Peter Poon, can be reached at 703.308.2574. The official fax telephone number for the Technology Center where this application or proceeding is assigned is 703.872.9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.1113.

Jeffrey L. Gellner

Primary Examiner